Appendix A: Claims in Marked up Form

1   1.   A computer implemented method for facilitating trick mode playback for a user,

2   comprising:

3   accessing a plurality of encoded digital video frames on a first computer system;

4   identifying a subset of said encoded digital video frames for compressed video encoding;

5   for all said identified encoded digital video frames, encoding an associated playback

6   video frame;

7   downloading said encoded playback video frames on a second computer system;

8   streaming said encoded digital video frames to said second computer system;

9   decoding said digital video frames and said playback video frames;

10   if said user directs, incrementally playing said digital video frames or said playback video

11   frames;

12   enabling said user to switch between playing said digital video frames and said playback

13   video frames;

14   enabling said user to change location of playing said playback video frames; and

15   when switching from playing said playback video frames to playing said digital video frames,

16   matching playing of said digital video frames with said location of playing said

17   playback video frames.

1   2. The method of Claim 1 further comprising said second computer system including a data

2   server computer system and a client computer system.

1   3. The method of Claim 1 further comprising said first computer system including an initiating

2   computer system and a data server computer system.

1   4. The method of Claim 1 further comprising, when said user directs incrementally playing said

2   playback video frames, enabling said user to direct playing of said playback video frames in

3   either a forward direction or a reverse direction.

1   5. The method of Claim 1 further comprising:

2   playing said digital video frames via a digital window on said second computer system; and

3   playing said playback video frames via a preview window on said second computer system.

1   6. The method of Claim 1 further comprising:

2   playing said digital video frames via a digital window on said second computer system; and

3   playing said playback video frames via overlaying a preview window on said digital window.

1   7. A computer implemented method for facilitating fast audio playback for a user, comprising:

2   accessing a plurality of encoded digital audio frames on a first computer system;

3   identifying a subset of said encoded digital audio frames for compressed audio encoding;

4   for all said identified encoded digital audio frames, encoding an associated playback audio

5   frame;

6   downloading said encoded playback audio frames on a second computer system;

7   streaming said encoded digital audio frames to said second computer system;

8 decoding said digital audio frames and said playback audio frames;

9 if said user directs, incrementally playing said digital audio frames or said playback audio

10   frames;

11 enabling said user to switch between playing said digital audio frames and said playback

12   audio frames;

13 enabling said user to change location of playing said playback audio frames; and

14 when switching from playing said playback audio frames to playing said digital audio frames,

15   matching playing of said digital audio frames with said location of playing of said

16   playback audio frames.

1 8. The method of Claim 7 further comprising said second computer system including a data

2 server computer system and a client computer system.

1 9. The method of Claim 7 further comprising said first computer system including an initiating

2 computer system and a data server computer system.

1 10. The method of Claim 7 further comprising:

2   playing said digital audio frames via a digital window on said second computer system; and

3   playing said playback audio frames via a preview window on said second computer system.

1 11. The method of Claim 10 further comprising:

2   associating audio attributes with said playback audio frames; and

3   representing said associated audio attributes on said preview window.

1   12. A computer implemented method for facilitating trick mode playback for a user, comprising:

2   accessing a plurality of encoded digital video frames and a plurality of encoded digital audio

3   frames on a first computer system;

4   identifying a subset of said encoded digital video frames for compressed video encoding;

5   identifying a subset of said encoded digital audio frames for compressed audio encoding;

6   for all said identified encoded digital video frames, encoding an associated playback video

7   frame;

8   for all said identified encoded digital audio frames, encoding an associated playback audio

9   frame;

10   downloading said encoded playback video frames and said encoded playback audio frames

11   on a second computer system;

12   multiplexing said encoded digital video frames and said encoded digital audio frames on said

13   first computer system;

14   streaming said multiplexed digital frames to said second computer system;

15   de-multiplexing said multiplexed digital frames;

16   decoding said encoded digital video frames, said encoded digital audio frames, said encoded

17   playback video frames, and said encoded playback audio frames; and

18   if said user directs:

19   synchronizing said digital video frames and said digital audio frames and playing said

20   synchronized digital video frames and digital audio frames; or

21   synchronizing said playback video frames and said playback audio frames and playing

22   said synchronized playback video frames and playback audio frames;

23   enabling said user to switch between playing said synchronized digital video frames and

24   digital audio frames and said synchronized playback video frames and playback audio

25   frames;

26   enabling said user to change location of playing said synchronized playback video frames and

27   playback audio frames; and

28   when switching to playing said synchronized digital video frames and digital audio frames,

29   matching playing of said synchronized digital video frames and digital audio frames

30   with said location of playing of said synchronized playback video frames and

31   playback audio frames.

1   13. The method of Claim 12 further comprising said second computer system including a data

2   server computer system and a client computer system.

1   14. The method of Claim 12 further comprising said first computer system including an

2   initiating computer system and a data server computer system.

1   15. The method of Claim 12 further comprising:

2   playing said synchronized digital video frames and digital audio frames via a digital window

3   on said second computer system; and

4   playing said synchronized playback video frames and playback audio frames via a preview

5   window on said second computer system.

1   16. The method of Claim 12 further comprising:

2   playing said synchronized digital video frames and digital audio frames via a digital window

3   on said second computer system; and

4   playing said synchronized playback video frames and playback audio frames via overlaying a

5   preview window on said digital window.

1   17. A computer implemented method for facilitating trick mode playback on a computer system

2   for a user, comprising:

3   accessing a plurality of encoded digital video frames;

4   identifying a subset of said encoded digital video frames for compressed video encoding;

5   for all said identified encoded digital video frames, encoding an associated playback video

6   frame;

7   downloading said encoded playback video frames on said computer system;

8   decoding said digital video frames and said playback video frames on said computer system;

9   if said user directs, incrementally playing said digital video frames or said playback video

10   frames;

11   enabling said user to switch between playing said digital video frames and said playback

12   video frames;

13   enabling said user to change location of playing said playback video frames; and

14   when switching from playing said playback video frames to playing said digital video frames,

15   matching playing of said digital video frames with said location of playing said

16   playback video frames.

1   18. A computer implemented method for facilitating fast audio playback on a computer system

2   for a user, comprising:

3   accessing a plurality of encoded digital audio frames;

4   identifying a subset of said encoded digital audio frames for compressed audio encoding;

5   for all said identified encoded digital audio frames, encoding an associated playback audio

6   frame;

7   downloading said encoded playback audio frames on said computer system;

8   decoding said digital audio frames and said playback audio frames on said computer system;

9   if said user directs, incrementally playing said digital audio frames or said playback audio

10   frames;

11   enabling said user to switch between playing said digital audio frames and said playback

12   audio frames;

13   enabling said user to change location of playing said playback audio frames; and

14   when switching from playing said playback audio frames to playing said digital audio frames,

15   matching playing of said digital audio frames with said location of playing of said

16   playback audio frames.

1   19. An article of manufacture comprising a program storage medium readable by a computer and

2   embodying one or more instructions executable by said computer for causing a computer system

3   to facilitate trick mode playback for a user, comprising:

4   accessing a plurality of encoded digital video frames on a first computer system;

5   identifying a subset of said encoded digital video frames for compressed video encoding;

6   for all said identified encoded digital video frames, encoding an associated playback video

7   frame;

8   downloading said encoded playback video frames on a second computer system;

9   streaming said encoded digital video frames to said second computer system;

10   decoding said digital video frames and said playback video frames;

11   if said user directs, incrementally playing said digital video frames or said playback video

12   frames;

13   enabling said user to switch between playing said digital video frames and said playback

14   video frames;

15   enabling said user to change location of playing said playback video frames; and

16   when switching from playing said playback video frames to playing said digital video frames,

17   matching playing of said digital video frames with said location of playing said

18   playback video frames.

1   20. The article of manufacture of Claim 19 further comprising said second computer system

2   including a data server computer system and a client computer system.

1 21. The article of manufacture of Claim 19 further comprising said first computer system

2 including an initiating computer system and a data server computer system.

1 22. An article of manufacture comprising a program storage medium readable by a computer

2 and embodying one or more instructions executable by said computer for causing a computer

3 system to facilitate fast audio playback for a user, comprising:

4 accessing a plurality of encoded digital audio frames on a first computer system;

5 identifying a subset of said encoded digital audio frames for compressed audio encoding;

6 for all said identified encoded digital audio frames, encoding an associated playback audio

7   frame;

8 downloading said encoded playback audio frames on a second computer system;

9 streaming said encoded digital audio frames to said second computer system;

10 decoding said digital audio frames and said playback audio frames;

11 if said user directs, incrementally playing said digital audio frames or said playback audio

12   frames;

13 enabling said user to switch between playing said digital audio frames and said playback

14   audio frames;

15 enabling said user to change location of playing said playback audio frames; and

16 when switching from playing said playback audio frames to playing said digital audio frames,

17   matching playing of said digital audio frames with said location of playing of said

18   playback audio frames.

1　23. (Amended) The [method] <u>article of manufacture</u> of Claim 22 further comprising said second

2　computer system including a data server computer system and a client computer system.

1　24. (Amended) The [method] <u>article of manufacture</u> of Claim 22 further comprising said first

2　computer system including an initiating computer system and a data server computer system.

1　25. A computer system for facilitating trick mode playback for a user, comprising:

2　　　a plurality of encoded digital video frames on a first said computer system;

3　　　a subset of said encoded digital video frames that are identified for compressed video

4　　　　　encoding;

5　　　for all said identified encoded digital video frames, an associated encoded playback video

6　　　　　frame;

7　　　said encoded playback video frames that are downloaded on a second said computer system;

8　　　said encoded digital video frames that are streamed to said second computer system;

9　　　said digital video frames that are decoded from said encoded digital video frames;

10　　　said playback video frames that are decoded from said encoded playback video frames;

11　　　while said user directs:

12　　　　　said digital video frames being incrementally played on said second computer system;

13　　　　　　or

14　　　　　said playback video frames being incrementally played on said second computer

15　　　　　　system;

16　　　a location of playing said playback video frames being changed by said user; and

17   said location of playing facilitating synchronized playing of said digital video frames when

18   said user directs playing said digital video frames after playing said playback video

19   frames.

1   26. The computer system of Claim 25 further comprising said second computer system including

2   a data server computer system and a client computer system.

1   27. The computer system of Claim 25 further comprising said first computer system including an

2   initiating computer system and a data server computer system.

1   28. A computer system for facilitating fast audio playback for a user, comprising:

2   a plurality of encoded digital audio frames on a first said computer system;

3   a subset of said encoded digital audio frames that are identified for compressed audio

4   encoding;

5   for all said identified encoded digital audio frames, an associated encoded playback audio

6   frame;

7   said encoded playback audio frames that are downloaded on a second said computer system;

8   said encoded digital audio frames that are streamed to said second computer system;

9   said digital audio frames that are decoded from said encoded digital audio frames;

10   said playback audio frames that are decoded from said encoded playback audio frames;

11   while said user directs:

12   said digital audio frames being incrementally played on said second computer system;

13   or

14   said playback audio frames being incrementally played on said second computer

15   system;

16   a location of playing said playback audio frames being changed by said user; and

17   said location of playing facilitating synchronized playing of said digital audio frames when

18   said user directs playing said digital audio frames after playing said playback audio

19   frames.

1   29. The computer system of Claim 28 further comprising said second computer system including

2   a data server computer system and a client computer system.

1   30. The computer system of Claim 28 further comprising said first computer system including an

2   initiating computer system and a data server computer system.